

PPTG Innovation Program Documentation for Fiberglass/ Polyester Paving Mat

What is the innovation? Describe Briefly.

Fiberglass/ Polyester Paving Mat. Fiberglass/ Polyester Paving Mat is a non-woven wet formed mat containing fiberglass (at least 60% of total mat) and polyester fibers. The paving mat is a nominal 4 oz mat and is engineered as a reinforcing layer for pavements.

What are the benefits or improvements of the innovation?

1. Delayed and minimized reflective cracking by use of glass fibers that provide low-strain tensile strength at low elongation.
2. Dimensional stability up to temperatures of 495 degrees Fahrenheit in order to withstand the elevated temperatures of HMA and Rubberized HMA pavement materials with no degradation of the mat.
3. Millable and Recyclable. Due to design of material, will not clog milling equipment or mill-out in large pieces or strips ensuring on-site millability and HMA facility recycling.
4. Moisture Barrier. When combined with a Hot AC Tack Coat, the material becomes saturated with the AC forming a moisture barrier between the existing pavement and successive overlay or chip seal application.

Uses/ Applications

Fiberglass/ Polyester paving mat is designed for use as a reflective crack mitigating, recyclable, thermally stable, moisture barrier, placed under HMA Overlays and Chip Seal applications. See attachment #1, Table 1, for suggested usage guidelines based on various distresses.

Specifications and Installation Guidelines

See attachments #2 Fiberglass/Polyester General Specification & #3 HMA Installation Guidelines

Field Performance Data

Performance data is available up request.

Corrective or Remedial Action in case of Failure of Fiberglass/Polyester Paving Mat

Will be arranged with the innovation sponsor and detailed in a separate document titled: "Section-Section ____ Warranty". The said warranty will be available in a word document for easy incorporation into other documents.

Evaluation Plan